

Virginia Division of Consolidated Laboratory Services

Phosphorus by Semi-Automated Colorimetry EPA Method 365.1 Revision 2.0					
Facility Name: _____ VELAP ID _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Were samples preserved with sulfuric acid to a pH < 2 and cooled to 4°C at the time of collection?	8.2				
When samples were not analyzed as soon as possible after collection, were they maintained at 4°C for no longer than 28 days prior to analysis?	8.3				
Was a determination of LCR, an analysis of QCS, and a determination of MDLs conducted initially as an initial demonstration of performance prior to performing analyses by this method?	9.2.1				
Was a LCR determined initially, verified every six months, or whenever a significant change in instrument is observed?	9.2.2				
Were LCRs reestablished if verifications of Linearity exceeded ±10% initial values?	9.2.2				
Were QCS within ±10% of stated values?	9.2.3				
Were MDLs established for all analytes when beginning this method and reestablished at least every six months thereafter?	9.2.4				
Was at least one LFB analyzed with each batch of samples and verified to be within either 90-110% recovery or ±3 standard deviations of mean percent recovery, whichever is better?	9.3.3, 9.3.4				
Was a Instrument Performance Check Solution (IPC) of a mid-range check standard analyzed immediately following daily calibration and at least every ten samples thereafter and verified to be within ±10% of calibration?	9.3.4				
Notes/Comments:					

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Did duplicate aliquots of 10% of routine samples have a known amount of analyte added to them for LFM analysis?	9.4.1				
Were the percent recoveries of the LFMs within 90-110%?	9.4.2				
Was 1 mL of 11N sulfuric acid solution added to 50 mL of samples and standards?	7.7, 11.1.1, 11.2.1				
Were 0.4g of ammonium persulfate added to 50 mL of samples and standards when phosphorous was analyzed?	11.1.2				
Was 1 drop of 5 g/L phenolphthalein indicator solution added to 50 mL of samples for orthophosphate analysis?	7.10, 11.3.1				
For orthophosphate analysis, if red color developed after addition of phenolphthalein was 11N sulfuric acid added until red color disappeared?	7.7, 11.3.1				
For orthophosphate analysis, were acid samples stabilized with 1N sodium hydroxide solution?	11.3.1				
Were 50 mL of samples and standards then boiled for 30-40 minutes or until a final volume of 10 mL is reached?	11.1.3				
Were samples allowed to cool after boiling and diluted back to 50 mL?	11.1.4				
Were samples that exceeded the highest calibration concentration diluted, and only values that fell between the lowest and highest calibration standards?	12.2				
Notes/Comments:					